

## Sordin Sharp

Electronic hearing protector with Bluetooth Multipoint support

Headband version | Helmet version



### DESCRIPTION

Sordin Sharp is designed for professionals in need to be connected all day. This high-quality electronic hearing protector comes with support of Bluetooth® Multipoint. This means that you can connect up to two external devices simultaneously, for example a smartphone and a 2-way radio. Sordin Sharp is available in headband or helmet-mounted version, with or without a boom microphone. Ambient sound support lets you hear surrounding sound, while being safely protected against harmful noise.

AVAILABLE IN



## KEY FEATURES

<b>Low weight design</b>	Sordin Sharp is considerably lighter than competing earmuffs with similar functionality.
<b>Built-in high quality rechargeable battery</b>	The Li-ion battery gives you several days of operating time before recharging. Easy charge using a standard USB-C cable (included).
<b>Built-in microphones</b>	Slim design allows you to work freely.
<b>Selectable sealing rings</b>	Choose between foam or gel sealing rings, replacement parts available as hygiene kits.
<b>Bluetooth® MultiPoint</b>	Lets you connect with one or two mobile phones, or one mobile phone and one two-way radio.
<b>Robust design</b>	Cups of high-performance ABS plastic for light weight and excellent impact strength.
<b>Voice feedback</b>	Helps you to easily control the functions of the hearing protector.
<b>Power saver</b>	Automatic power off, no risk of unintentionally discharging the battery.
<b>Built-in antenna</b>	Discretely mounted, no protruding parts.
<b>Headband version</b>	The headband comes with a ventilated textile sleeve for maximum comfort all day. Replacement sleeves available as accessories.
<b>Helmet version</b>	Easy to connect to different helmet models using a standard adapter. A patented spring offers optimum pressure and comfort.
<b>Ambient sound</b>	Stay connected with the surrounding environment, while being protected from hazardous noise.
<b>Sound reproduced</b>	Through the level dependent function is limited to a maximum of 82 dB.
<b>Built-in microphones</b>	Slim design allows you to work freely.
<b>Attachable boom microphone</b>	Yes, under right cup.

## MATERIALS

<b>Cups</b>	ABS, TPE
<b>Attenuation foam</b>	PU foam
<b>Foam sealing rings</b>	ABS, PP, TPE, PU foam
<b>Gel sealing rings</b>	ABS, PVC foil, silicone gel
<b>Headband</b>	POM
<b>Cup supporting arm</b>	PA
<b>Support band</b>	TPE
<b>Adapter, holder</b>	PA
<b>Spring cover</b>	PP
<b>Spring</b>	Stainless steel
<b>Screws</b>	Stainless steel
<b>Textile sleeve</b>	PA, TPU, PE foam

## TECHNICAL INFORMATION

<b>Batteries</b>	Built-in rechargeable Li-ion battery (2,000 mAh). Estimated operating time: 36 hours. 60 min charging gives minimum 8 hours usage time. USB-C cable for charging included. <i>(Only charge the batteries between temperatures 0°C to +40°C.)</i>
<b>Operating conditions</b>	-20°C to +55°C
<b>Weight headband / helmet version</b>	Foam: 387 gram / 387 gram Gel: 428 gram / 429 gram
<b>Complies with following environmental directives</b>	RoHS, WEEE
<b>Bluetooth profiles</b>	Bluetooth 5 certified with A2DP (streaming), and HSP HFP (headset) support
<b>IP class</b>	IP 44 (Sharp)
<b>Complies with following environmental directives</b>	IP 67 (noise-cancelling boom microphone – accessory)

## EN APPROVAL

### Tests and certificates

Tested and certified to EN 352-1:2002, EN 352-3:2002, EN 352-4/A1:2005 and EN 352-8:2008.  
IEC 62368-1 (EN 62368-1+A11), IEC 62133-2:2017 and 2014/53/EU Radio Equipment Directive RED.  
Certificate: CE 737872 (headband and helmet versions).  
Notified body: BSI Netherlands (NB 2797)



## A SORDINCARE PRODUCT

The Sordin Sharp family is covered by the SordinCARE concept. SordinCARE is a new way of looking at workplace health, safety and productivity at work. We help organizations explore the opportunities provided by individually selected hearing protectors. We offer a wide product range designed for professional use, along with customer support ranging from noise measurement to tailoring communication solutions for mobile workteams. Let us help you take care of your people.



## ATTENUATION DATA

### Sordin Sharp headband – foam sealing ring

H	M	L	SNR	NRR
35 dB	26 dB	19 dB	<b>29 dB</b>	n/a



Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, $M_f$ (dB)	17.2	17.9	24.6	30.8	35.9	43.9	42.6
Standard Deviation, $s_f$ (dB)	2.3	2.4	2.1	2.4	2.5	3.8	2.3
APV ( $M_f - s_f$ ) (dB)	14.9	15.5	22.6	28.3	33.4	40.1	40.3

### Sordin Sharp headband – GEL sealing ring

H	M	L	SNR	NRR
35 dB	26 dB	19 dB	<b>29 dB</b>	n/a



Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, $M_f$ (dB)	16.6	18.0	25.3	31.3	37.0	44.9	44.9
Standard Deviation, $s_f$ (dB)	2.9	1.7	2.4	2.7	2.7	3.7	2.8
APV ( $M_f - s_f$ ) (dB)	13.7	16.4	22.9	28.6	34.4	41.2	42.1

### Sordin Sharp helmet – foam sealing ring

H	M	L	SNR	NRR
33 dB	25 dB	19 dB	<b>28 dB</b>	n/a



Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, $M_f$ (dB)	18.8	18.7	24.5	30.0	36.2	45.0	40.8
Standard Deviation, $s_f$ (dB)	3.0	3.2	3.1	2.9	2.6	4.7	4.9
APV ( $M_f - s_f$ ) (dB)	15.8	15.4	21.4	27.1	33.6	40.4	36.0

### Sordin Sharp helmet – GEL sealing ring

H	M	L	SNR	NRR
35 dB	25 dB	18 dB	<b>28 dB</b>	n/a



Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, $M_f$ (dB)	17.2	17.9	24.6	30.8	35.9	43.9	42.6
Standard Deviation, $s_f$ (dB)	2.3	2.4	2.1	2.4	2.5	3.8	2.3
APV ( $M_f - s_f$ ) (dB)	14.9	15.5	22.6	28.3	33.4	40.1	40.3

### Criterion levels (dB)

Model	H	M	L
Headband version	116.6	105.5	97.1
Helmet version	116.3	104.9	95.3

### Earmuff Sizes

Model	Approved sizes
Headband version	S, M, L
Helmet version	S, M, L

**NOTICE!** Sizes refer to approved standard head sizes according to applicable standards. Each hearing protector model is available in one size only.

## ORDERING INFORMATION

### Sordin Sharp headband

Product no	Version	Cup color	Ring
84000-04-B-G-S	Sordin Sharp headband, gel, black, with boom microphone	Black	Gel
84000-04-B-S	Sordin Sharp headband, foam, black, with boom microphone	Black	Foam
84000-04-G-S	Sordin Sharp headband, gel, black	Black	Gel
84000-04-S	Sordin Sharp headband, foam, black	Black	Foam

### Sordin Sharp helmet (adapter 20)

Product no	Version	Cup color	Ring
84520-04-B-G-S	Sordin Sharp helmet, adapter 20, gel, black, with boom microphone	Black	Gel
84520-04-B-S	Sordin Sharp helmet, adapter 20, foam, black, with boom microphone	Black	Foam
84520-04-G-S	Sordin Sharp helmet, adapter 20, gel, black	Black	Gel
84520-04-S	Sordin Sharp helmet, adapter 20, foam, black	Black	Foam

What helmets works with adapter 20? See latest list on [www.sordin.com/sharp](http://www.sordin.com/sharp)

### Accessories

Product no	Version
60050-S	Hygiene kit, foam sealing rings – 1 pair of foam rings, 1 pair of inserts <i>(Foam ring: TPE (thermoplastic elastomer) covered PU (polyurethane) foam. Inserts: PU foam.)</i>
60051-S	Hygiene kit, gel sealing rings – 1 pair of gel rings, 1 pair of inserts <i>(Gel ring: TPU (thermoplastic polyurethane) covered silicone gel. Inserts: PU foam.)</i>
60125-S	Textile sleeve for Sordin Sharp headband version
60126-S	Boom microphone <i>(Optional communication boom microphone for best noise suppression in high-noise environments.)</i>
60128-S	Windshield foam, extra 10-pack
60129-S	USB-C Adapter Cable <i>(One cable is included in the Sharp product package)</i>